CLAIMS

1. A FED control circuit for controlling an electrode voltage of a field emission display which includes a plurality of cathode electrodes and gate electrodes, both of which being arranged in lattice shape; emitters, each of which being arranged at an intersection point of said cathode electrode and said gate electrode; fluorescent materials and anode electrodes, both of which being disposed opposing to said cathode electrode, said FED control circuit comprising:

a cathode voltage control unit for controlling said cathode electrode so that electron emission from said cathode electrode is uniform; and a gate electrode driving unit for changing a gate electrode voltage in response to a video signal.

- 2. The FED control circuit according to claim 1, wherein said cathode voltage control unit charges a capacitor by a constant current and determines a cathode voltage of each pixel by controlling charging time.
- 3. The FED control circuit according to claim 2, wherein said charging time of said capacitor is controlled by pulse width.

- 4. The FED control circuit according to any one of claims 1 to 3, wherein said gate electrode driving unit performs ON/OFF control of said gate electrode by complementary connection.
- 5. The FED control circuit according to any one of claims 1 to 4, further comprising a characteristics correction unit which continuously corrects variation for every said gate electrode by a data table.